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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/586,620	07/19/2006	Kei Yoneda	056937-0299	8199
	7590 05/27/200 `WILL & EMERY LL	EXAMINER		
600 13TH STR	•	PHAN, THAI Q		
WASHINGTON, DC 20005-3096			ART UNIT	PAPER NUMBER
			2128	
			MAIL DATE	DELIVERY MODE
			05/27/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/586,620	YONEDA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Thai Phan	2128			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	Lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 19 Ju This action is FINAL. 2b) ☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-35 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-3,15-18,21-24,30,32 and 34 is/are refered. 7) Claim(s) 4-14,19,20,25-29,31,33 and 35 is/are 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examinet 10) The drawing(s) filed on 19 July 2006 is/are: a) Applicant may not request that any objection to the ore Replacement drawing sheet(s) including the correction.	vn from consideration. ejected. objected to. r election requirement. r. ☑ accepted or b)☐ objected to bedrawing(s) be held in abeyance. See	37 CFR 1.85(a).			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 07/2006.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

DETAILED ACTION

This Office Action is in response to patent application S/N: 10/586,620, filed on July 19, 2006. Claims 1- 35 are pending in the Action.

Information Disclosure Statement

The Information Disclosure Statement filed on July 19, 2006 was being considered by the examiner.

Priority

Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Japan on January 20, 2004. It is noted, however, that applicant has not filed a certified copy of the Japan application as required by 35 U.S.C. 119(b).

Claim Objections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 4, 6, 7, 12 and 24 are objected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The cited "collating the instruction and the reference data" in the claims are unclear.

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-3, 15-18, 21-24, 30, 32, and 34 are rejected under 35 U.S.C. 102(e) as being anticipated by Liang, Sheng, US patent no. 7,120,572.

As per claim 1, Liang anticipates a verification apparatus comprising:

- a circuit data unit including at least a processor;
- a simulation device; an expectation value generating device;
- a comparing device;

an extracting device; and an execution control device, wherein the simulation device executes simulation of an instruction executable by the processor in the circuit data unit to thereby generate a simulation result, the expectation value generating device generates an expectation value when the instruction is executed, the comparing device compares the simulation result to the expectation value, the extracting device extracts an information referenced when the expectation value generating device generates the expectation value or the generated expectation value, and the execution control device judges whether or not the instruction satisfies data restriction condition

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based on the information extracted by the extracting device (col. 6, lines 58-65, col. 7, lines 30-41, col. 8, line 62 to col. 9, line 10), and

controls the execution of the instruction in the simulation device and the expectation value generating device based on a result of the judgment (col. 7, lines 30-42, col. 10, lines 6-20, col. 12, lines 25-58).

As per claim 2, Liang anticipated the verification apparatus as claimed in claim 1, wherein the execution control device observes a value of a register in which the information extracted (derived) by the extracting device is stored to thereby judge whether or not the instruction satisfies the data restriction condition (col. 8, line 62 to col. 9, line 10, col. 17, lines 23-34).

As per claim 3, the verification apparatus as claimed in claim 1, wherein the execution control device halts the execution of the instruction in the simulation device and the expectation value generating device based on the judgment result (col. 18, line 39 to col.19, line 45).

As per claims 15-18, the claims directed to processing steps of the apparatus claims 1-3 above and Liang also anticipated the method of operation of the devices as in the method claims. Claims 15-18 are also rejected under the same rationales as set forth.

As per claim 21, Liang anticipated the instruction emulation with expected value as claimed (Col. 17, lines 23-34, col.. 20, lines 6-34).

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As per claims 22-24, 30, 32, and 34, Liang anticipated the limitations in the claims to check expectation data values, instructions shifting or backjump as in col. 20, line 1 to col. 21, line 30),

Conclusion

1. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai Phan whose telephone number is 571-272-3783. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamini Shah can be reached on 571-272-2279. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

2. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.Status information for unpublished applications is available through Private PAIR only. Application/Control Number: 10/586,620 Page 6

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

May 22, 2007

/Thai Phan/ Primary Examiner, Art Unit 2128